3703

called & inquired briefly and suggested a denial without prejudice. He asked time to talk it over with Stafford.

Aug 2. called Crawford again. He checked with Joe but the R.F.C. report mentioned in Crawfords July 11 memo hadn't arrived. Joe will telltype Field and give answer early next week.

Murphy

Aug. 12-55

I called Joe H. today. He stated he had written the Field for any additional information other than that shown in "Supplement to Preliminary Recon. Report" which is in this file. He expects a reply shortly.

RWR.

Surname 700

Murphy
Ellis
Kilegaard
Young
Fredge

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

AUG 29 1955

Mr. Earl H. Gilliam, Jr., et al.
St. Patrick's Mining Group
925 North Acacia
Rialto, California

Re: Docket No. DMEA-3703 (Uranium)
St. Patrick's Group, et al.
San Bernardino County, California

Dear Mr. Gilliam:

Your application for aid in an exploration project and other information available to us in Washington relating to the above-named property have been reviewed.

Projects approved by this agency must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting a small amount of uranium mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied without prejudice to the property. If future work on your property reveals evidence which could materially alter this opinion, be assured we will be pleased to consider a new application.

We wish to thank you for your interest in the Defense Minerals program and for bringing your property to our attention.

Complying with your request we are returning the following exhibits:

1) San Gorgonio quadrangle map.

2) Smith-Emery Company's spectrographic report, dated July 26, 1954.

3) Atomic Energy Commission's letter, dated December 9, 1953.

4) Atomic Energy Commission's letter, dated July 12, 1954.

R.G.B.

5) Atomic Energy Commission's letter, dated September 29, 1954.

6) U. S. Bureau of Mine's chemical laboratory report, dated December 3, 1953.

7) Preliminary Reconnaissance Report, dated December 22, 1953.

8) Folio, Geology of San Bernardino Mountains, by Francis Edward Vaugh.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosures

FLKnouse:FMMurphy:gla:am
8-22-55: 8-24-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard,Rm.5222
J. O. Hosted,Rm.3210,GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III(2)

Murphy
Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

August 22, 1955

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-3703

Commodity: Uranium

Applicant: St. Patrick's Mining Group
Earl H. Gilliam, Jr., et al.
925 N. Acacia
Rialto, California

Property: The property owned by the applicant group is located in sec. 7, T. 1 S., R. 1 E., S.B.B. & M., and consists of 11 unpatented mining claims; St. Patrick's Nos. 1 through 7, Three Squares, King Nos. 1 and 2, and Horse Flesh. San Bernardino County, California

Date of application: February 12, 1955

Amount of application: $44,452.00

Work proposed: The applicant mentions core-drilling and access roads, but the exact amount is not stated. The Field Team report states: "The work included about 2,600 feet of diamond drilling @ $6.00 per foot and other sundry items, such as access roads and various accessories."

Estimated Cost of Project:

(a)	Independent Contracts		
	1. Access Roads	$2,000.00	
	2. Core drilling	16,000.00	
	3. Survey	1,000.00	$19,000.00
(b)	Labor, Supervision, and Consultants		8,200.00
(c)	Operating Materials and Supplies		315.00
(d)	Operating equipment (rental)		1,212.00
	Improvements, etc.		1,325.00
	Miscel.		400.00
	Additional drilling, contingent on previous work		14,000.00
	Total estimated cost of project		$44,452.00
	Govt. participation @ 75%		$33,339.00

Field Team
Report and
Recommendation: Received June 24, 1955
(Excerpts):

Abnormal radiation was detected in sheared metamorphic rocks and in orthoclase-rich pegmatitic dikes which cut the bedrock, but no radioactive mineral was seen on the property. Radiometric field testing and chemical analyses of samples taken indicate the most promising showings contained from 0.01 to 0.04 percent eU_3O_8.

There is, however, neither structure nor mineralized exposures on the property at this time that warrants a drilling program or participation by the DMEA in the cost of exploration.

The Field Team recommends that application DMEA-3703 be denied.

Commodity Committee Members' Comments:

U. S. Geological Survey: N. E.Nelson, July 5, 1955.

Concurs with denial recommendation.

U. S. Bureau of Mines: J. E. Crawford, July 11, 1955.

Mr. Crawford and Mr. J. O. Hosted, A.E.C. Washington representative, suggest that the application be held in abeyance pending a supplementary report by the A.E.C., because a Preliminary Reconnaissance Report by the A.E.C. No. SC-SL-16 Suppl., dated 5/10/55, indicated that further investigation in this area might be warranted.

However, in a memorandum, dated August 19, 1955, Mr. Crawford indicates that the supplementary data was not encouraging and therefore recommends the application be denied.

Rare and Miscellaneous Metals Division: F. M. Murphy, August 19, 1955.

The Field Team's recommendation for denial is concurred in by this Division.

Ernest Wm. Ellis

Ernest Wm. Ellis

8/22/55 gfa

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

August 19, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Final recommendation regarding application for assistance and Field Team report of examination, DMEA Docket 3703, St. Patrick's Mining Group, San Bernardino County, California

Mr. Joseph O. Hosted, Washington representative of the Atomic Energy Commission, has informed me that the additional data provided by the Commission's field office regarding the mineralization on the St. Patrick's Mining Group's property does not suggest that further consideration of this application, DMEA Docket 3703, is warranted. Therefore, we concur with the report of the Field Team that the application of the St. Patrick's Mining Group be denied.

John E Crawford
John E. Crawford

RECEIVED
AUG 19 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

August 19, 1955

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To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

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John E. Crawford

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UNITED STATES
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BUREAU OF MINES
WASHINGTON 25, D. C.

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John E. Crawford

RECEIVED
AUG 19 1955

8/11/55 gla

RECEIVED
AUG 11 1955

8 Aug. 1955
925 N. Acacia
Rialto, Calif.

United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Gentlemen:

Reference is made to DMEA Docket No. 3703, St. Patrick's Mining Grp. It is requested that your office inform us of the status of our application for DMEA assistance at your earliest convenience. If we can be of any further aid, please do not hesitate to inform us.

Sincerely,

Earl H. Gilbain Jr.
St. Patrick's Mining Grp.

Note:
This letter was not acknowledged as denial letter was in preparation
Murphy

7/12/55 sgla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED
JUL 12 1955

July 11, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 3703, St. Patrick's Mining Group, San Bernardino County, California

I have reviewed the Field Team report of examination, St. Patrick's Mining Group, DMEA Docket 3703; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the application be held in abeyance pending additional supplementary report by the Atomic Energy Commission.

Attached is Preliminary Reconnaissance Report by the Atomic Energy Commission, Number SC-SL-16 Suppl., dated 5/10/55, indicating that further investigation in this area might be warranted.

The report has been forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford
John E. Crawford

Attachment

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED
JUL 1 3 1955

July 11, 1955

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED
JUL 12 1955

July 11, 1955

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Uranium Commodity Committee, Room 4445

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John E. Crawford

Attachment

U.V. FORM 74
(Rev. 6/2/52)

SUPPLEMENT TO PRELIMINARY REPORT

EXAMINED BY: Henry E. Nelson
DATE(S) OF THIS EXAMINATION: 5/10/55

SUPPLE
DATE
DATE OF

1. SAMPLE DATA

NUMBER	ASSAY (U_3O_8) RADIOMETRIC	ASSAY (U_3O_8) CHEMICAL	OTHER ELEMENTS CHEMICAL ThO_2
103710	0.16	0.073	0.33
103710A	0.01	0.006	0.01

2. S

3. OWNER OR OPERATOR: Patrick D. Haugh
ADDRESS: 3031 Flores St.
San Bernardino, Calif.

4. ADDITIONAL INFORMATION ON MINERALOGY, RADIOACTIVITY, GEOLOGY, [illegible]

Pre-Cambrian gneissic area, within ½ mi. of the San Andreas [illegible] (Lytle Canyon). Radioactive minerals (identified by F. Hewitt as urano-thorite) [illegible] associated with reddish pink feldspars, the zone appears to be quite [illegible], upwards of 1000 feet long, is said to be 1000 feet wide and where exposed is more than 50 feet thick.

A jeep road has been built up the side of the mountain to the property. Radioactive talus is to be seen at various places in the road cut.

5. CONCLUSIONS:

There is no visible uranium mineralization but there could be a large, low-grade, flat-lying urano-thorite bearing deposit in this area. It is felt that some road building, geologic mapping, and even some diamond drilling in this area might be warranted.

6. RECOMMENDATIONS: A DMEA loan for uranium has been applied for and should receive serious consideration (include thorium).

7. TO BE FOLLOWED BY:

ADDITIONAL SUPPLEMENTARY REPORT X ; MEMORANDUM REPORT ____ ; BOUND REPORT ____

8. THIS IS FINAL REPORT: No

7/6/55 gfa

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
JUL - 6 1955

July 5, 1955

Re: DMEA 3703
St. Patrick's Mng. Group
St. Patrick's Group, et al.
San Bernardino Co., Calif.
$44,452.00 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The results of the sampling of the field examiners, the reports of the chief of A.E.C. and the lack of substantiative evidence of uranium mineralization justify the conclusions of the Field Team.

I concur with the denial recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
JUL - 6 1955

July 5, 1955

Re: DMEA 3703
St. Patrick's Mag. Group
St. Patrick's Group, et al.
San Bernardino Co., Calif.
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N. E. Nelson

N. E. Nelson

NENelson:iml
G-7/5/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
JUL - 6 1955

July 5, 1955

Re: DMEA 3703
St. Patrick's Mng. Group
St. Patrick's Group, et al.
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N. E. Nelson

N. E. Nelson

NENelson:iml
G-7/5/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
JUL - 6 1955

July 5, 1955

Re: DMEA 3793
St. Patrick's Mng. Group
St. Patrick's Group, et al.
San Bernardino Co., Calif.
$44,452.00 - Bonnies

Memorandum

To: K. W. Ellis, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The results of the sampling of the field examiners, the reports of the chief of A.E.C. and the lack of substantiative evidence of uranium mineralization justify the conclusions of the Field Team.

I concur with the denial recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-7/5/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
JUN 24 1955

1605 Evans Avenue
Reno, Nevada

June 22, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3703 (Uranium)
St. Patrick's Mining Group
St. Patrick's Group, et al
San Bernardino County, California

In accordance with your letter of April 25, 1955, regarding above subject, we are attaching four copies of a report by E. H. Pampeyan, Geological Survey and B. H. Sheahan, Bureau of Mines.

The report recommends a denial of the application for exploration aid by the Government. Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.

Reviewed by
DMEA OPERATING COMMITTEE
7-1-55
(date)

RECEIVED
JUN 24 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-3703 - (Uranium)
Earl H. Gilliam, Jr., et al
St. Patrick's Group, et al
San Bernardino County, California

B. H. Sheahan
Mining Engineer
U. S. Bureau of Mines

E. H. Pampeyan
Geologist
U. S. Geological Survey

June 22, 1955

Reviewed by
DMEA OPERATING COMMITTEE
7-1-55
(date)

INTRODUCTION

Application for assistance to explore uranium claims by diamond drilling was made by Mr. Earl H. Gilliam, Jr. and partners on February 12, 1955. Proposed program called for a total expenditure of $44,452.00.

At the request of the DMEA Operating Committee, a joint field examination of the property was made on May 12 and 13, 1955 by B. H. Sheahan of the Bureau of Mines and E. H. Pampeyan of the Geological Survey.

Mr. Ernest E. Thurlow, Chief of AEC, Salt Lake Exploration Branch, Division of Raw Materials, furnished a preliminary reconnaissance report (File SC-SL16) dated Dec. 22, 1953 and a supplement to the preliminary reconnaissance report (File SC-SL-16) dated May 10, 1955.

CONCLUSIONS AND RECOMMENDATIONS

Radioactive material probably owing to thorium occurs sporadically in schists and gneisses. Sampling the most attractive spots indicates U_3O_8 content ranging from trace to 0.04 percent.

The area may warrant further preliminary prospecting, but at present there is insufficient evidence of the possibility of discovering economic uranium deposits to justify participation by the Government in exploration. It is recommended that the application for assistance be denied.

RECEIVED
JUN 24 1955

LOCATION, ACCESSIBILITY AND LOCAL RESOURCES

Labor and supplies are unavailable in the immediate vicinity. The nearest supply point is Mentone, California which is twelve miles southwest. Water, native timber and electric power are available at Forest Home, Calif.

The property is 31 miles by paved highway east of Rialto on the steep north slope of Mill Creek Canyon in the San Bernardino mountains, 0.5 mile northeast of Forest Home, San Bernardino County, California on National forest land. The claims are located in sec. 7, T. 1 S., R. 1 E., S.B.B.&M. (proj.) at an elevation of 6,000 to 7,000 feet.

HISTORY

The applicants stated that radioactive material was found near Forest Home in 1952. The claims were located in April and July 1953.

A preliminary reconnaissance report and supplement was made by the Atomic Energy Commission in December 1953 and May 1955. Subsequent work by the owners failed to find ore of economic grade.

PROPERTY AND OWNERSHIP

The property includes eleven lode mining claims indicated on figure 3. The locators include E. H. Gilliam, R. D. Clayton, P. D. Haugh and Sam David Floyd.

Names listed as applicants include:

Earl H. Gilliam, Jr.	Raymond Thomas
Patrick D. Haugh	Thomas Haugh
Ralph Claxton	Joseph Bennett
Lawrence Goddard	Vincent Haugh

Samuel D. Floyd

The applicants lack mining experience and have no definite exploration plan, target or objective. Their main occupations include various skills in trades and hobbies which are of indirect relationship to prospecting.

The financial responsibility of the applicants was not definitely determined, but they claim they are able to provide their share of the necessary capital if a contract was approved.

DEVELOPMENT

The only work done on the property includes eleven location pits less than 10 feet deep; approximately one mile of very steep access road construction; and one open cut trench (see figs. 2 and 3).

Equipment owned by the applicant included the following:

Item	Condition
1 Truck, 1/4-ton, jeep	fair
1 Scintillator	fair
1 Geiger counter	fair
Small hand tools	good

GEOLOGY

Precambrian metamorphic rocks consisting of schists and gneisses, cut by pegmatitic dikes and faults, underlie the applicant's eleven claims on the north flank of Mill Creek Canyon. Jurassic (?)

granitic rocks intrude the ancient rocks and are exposed along the south side of the canyon and also on the north side about one mile west of Forest Home (fig. 2). Mill Creek wash is along the Mill Creek branch of the San Andreas fault which is responsible for much of the shearing in the adjacent bedrock. Traces of abnormal radioactivity, probably owing to thorium, can be detected locally in the metamorphic rocks.

ORE DEPOSITS

Abnormal radiation was detected in sheared metamorphic rocks and in orthoclase-rich pegmatitic dikes which cut the bedrock, but no radioactive mineral was seen on the property. Readings taken with a Precision Model III Scintillator ranged from a low of 0.02 MR/HR in Mill Creek wash to a maximum of 0.35 MR/HR in the small open cut at D (fig. 2); an average background reading of 0.08 MR/HR was determined for the bedrock. The anomalous readings came from thin layers of reddish-orange colored clay on fracture surfaces in chlorite schist and orthoclase-rich dike rock. The highest readings were obtained from fresh exposures; the same outcrops and samples were much less radioactive after exposure to the atmosphere for more than one day. Dr. D. F. Hewett of the U. S. Geological Survey reports that uranothorite occurs with magnetite on a property one-half mile east of these claims but that no uranothorite or other radioactive mineral has been found on the St. Patrick's claims. Location of "veins"

shown on figure 2 were determined by radiometric surveys made by the applicant. At all but two localities no structural or lithological controls are exposed.

At D (fig. 2), in an open cut 40 feet long, 15 feet wide and 8 feet deep, a pegmatite dike cuts the bedrock and reddish-orange colored clayey coatings give readings of 0.15 to 0.35 MR/HR. This dike was not exposed beyond the limits of the cut. A sample (S-350) taken from this cut showed only a trace of equivalent U_3O_8.

At F, and to the south for several hundred feet, an exposure of sheared chlorite schist contained more of the reddish-orange clay which gave readings up to 0.30 MR/HR. A sample (S-351) cut from this zone contained 0.01 percent eU_3O_8.

At locality G a grab sample of float contained the highest value of equivalent uranium, 0.04 percent eU_3O_8.

No production is reported from this property.

Samples taken from the property were analyzed by the U. S. Bureau of Mines, Reno, Nev. The results follow:

Sample No.	Width, feet	Radiometric determination Equivalent U_3O_8	Remarks
S-349	0.5	Trace	See figure 2
S-350	6.0	Trace	See figure 2
S-351	0.5	0.01	See figure 2
S-352	0.5	0.04	See figure 2 (Select specimen)

The analyses of previous samples taken by examiners from the Atomic Energy Commission are not of economic grade.

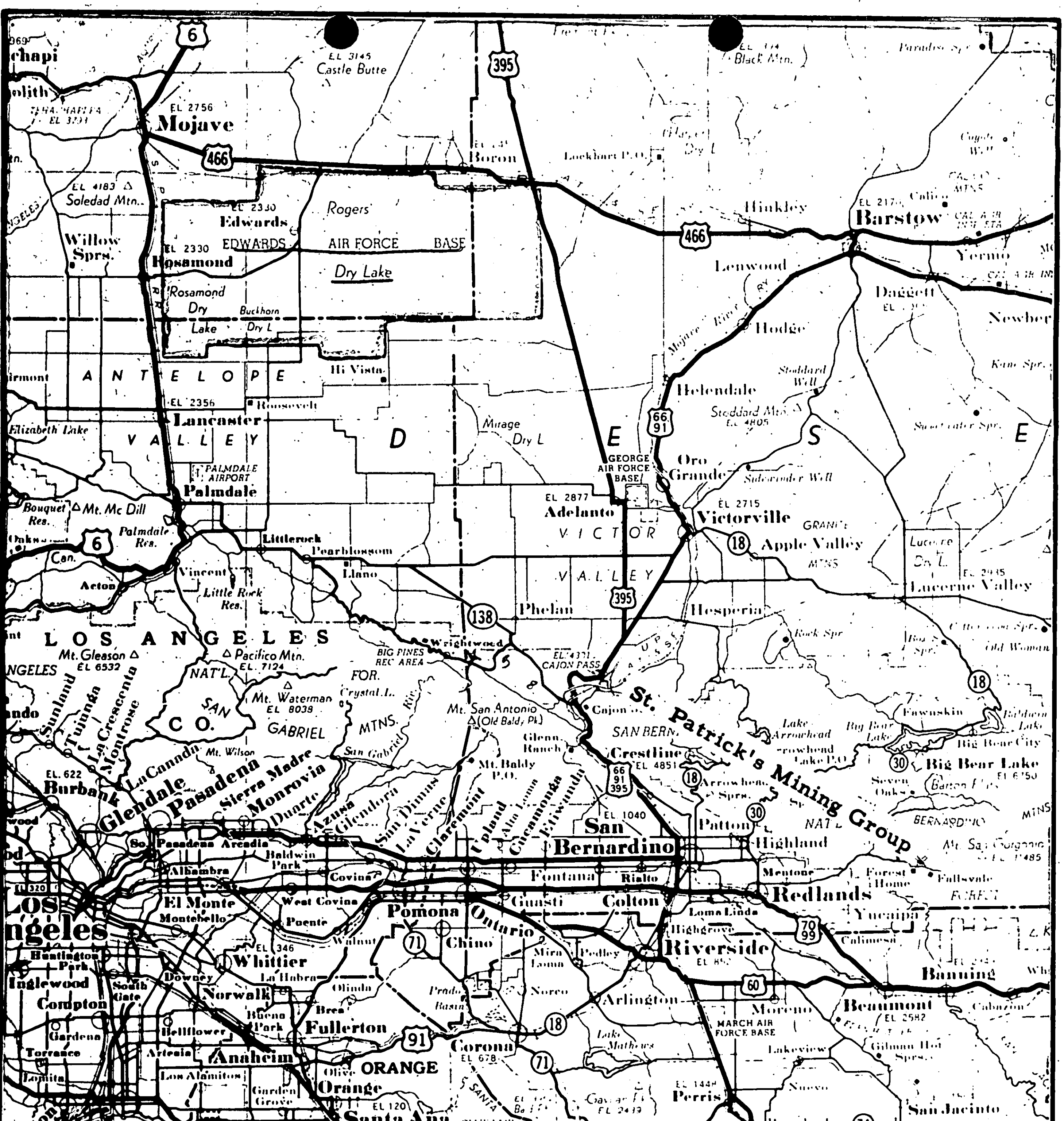
ORE RESERVES

There are no measured or indicated reserves. Inferred reserves of a few hundred tons of rock containing a trace to 0.01 percent eU_3O_8 exist along the fault at F and an additional few hundred tons of inferred reserves of very low grade rock are thought to exist elsewhere on the property along the "veins" (fig. 2).

PROPOSED EXPLORATION

The applicant estimated that the total cost of his proposed program would be $44,452.00. The work included around 2,600 feet of diamond drilling at $6.00 per foot and other sundry items, such as access roads and various accessories.

There is however neither structure nor mineralized exposures on the property at this time that warrants a drilling program or participation by the DMEA in the cost of exploration.



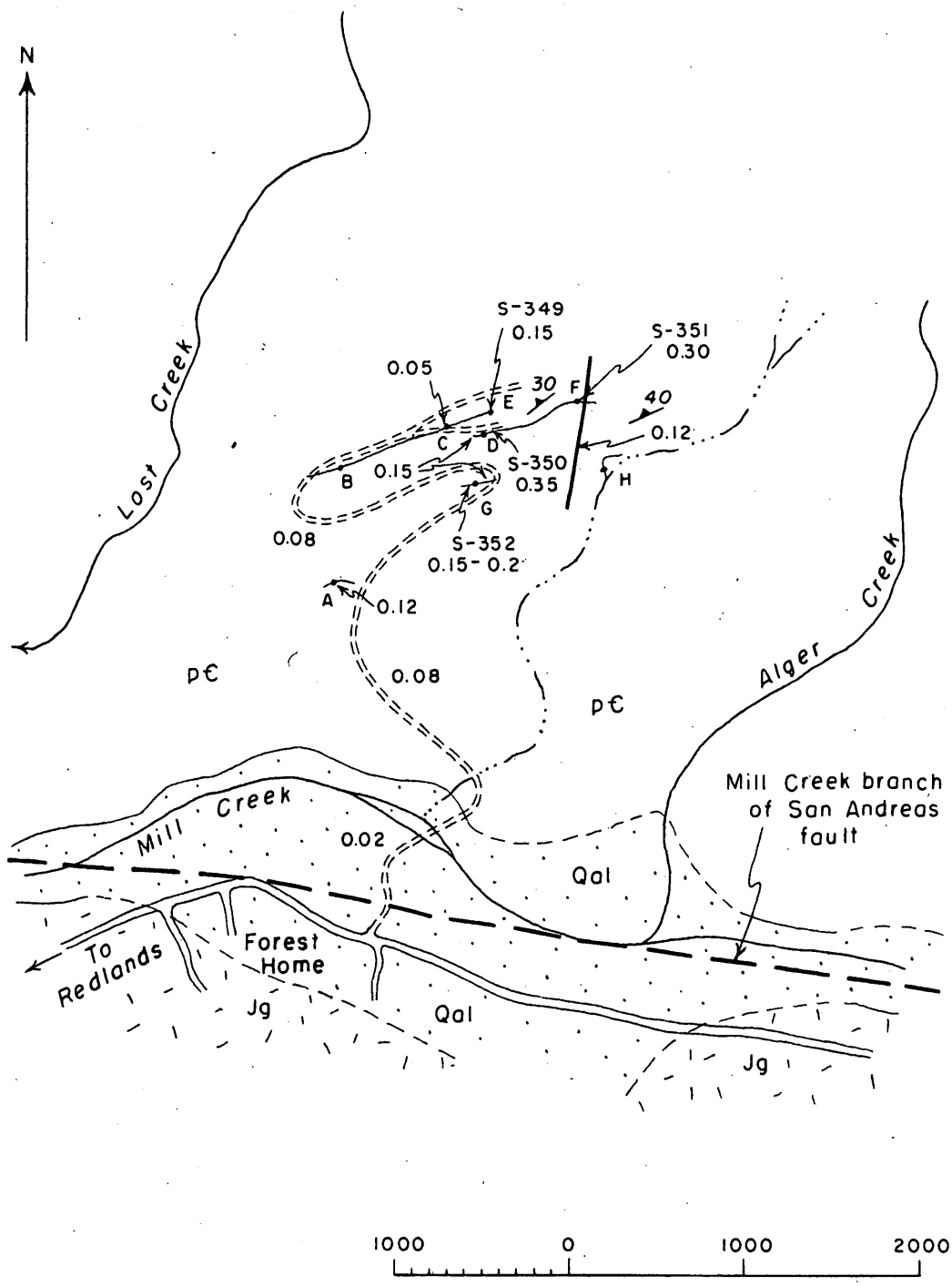
Docket No. DMEA-3703 (Uranium)
Forest Home, San Bernardino County, California

FIG. I LOCATION MAP

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3703
(URANIUM)

RECEIVED
JUN 24 1955



EXPLANATION

Qal
Alluvium

Jg
Granitic rocks

pЄ
Archean (?) metamorphic rocks

Contact (Dashed where approximately located)

Fault (Dashed where approximately located)

40
Strike and dip of foliation

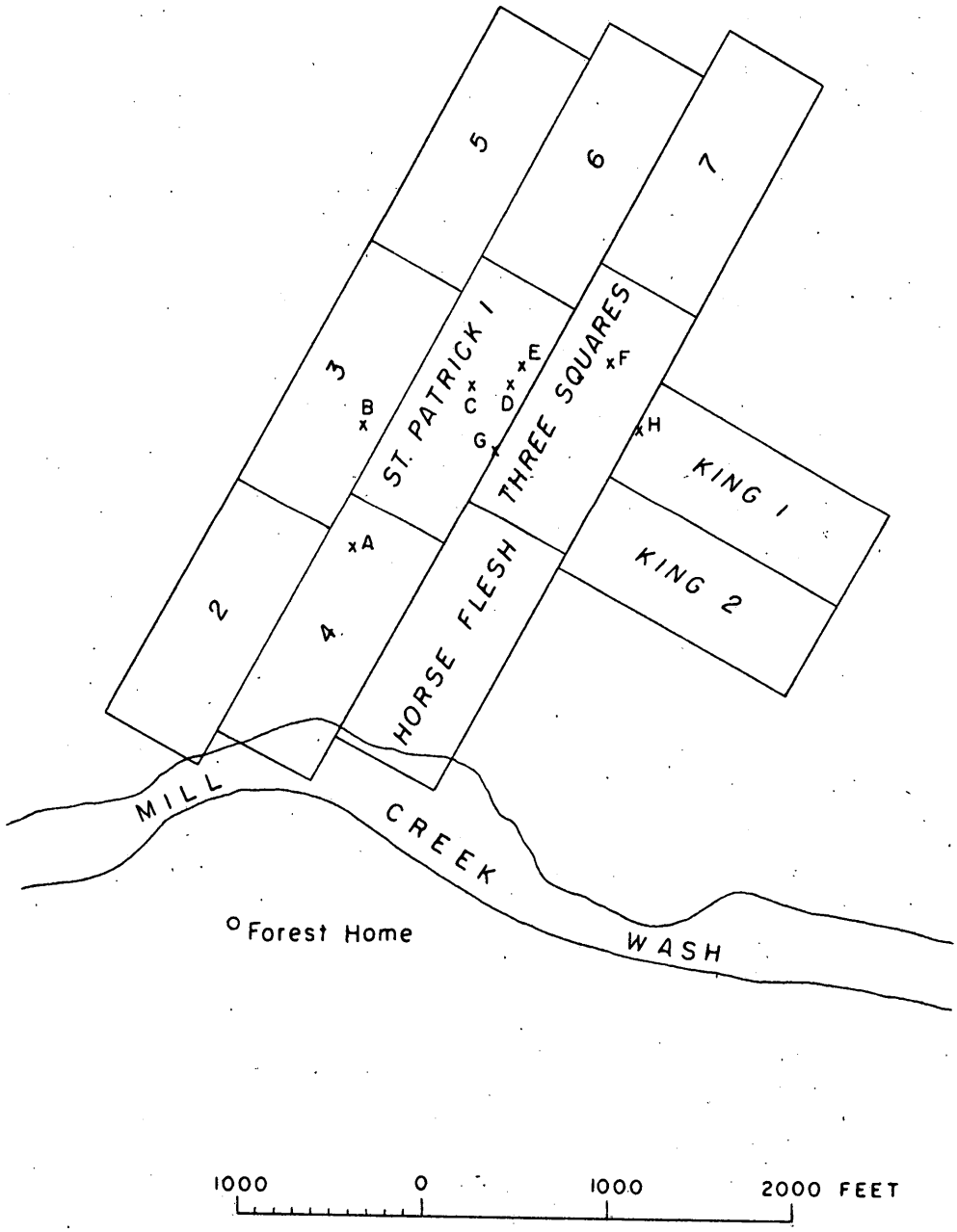
A B
Location of "vein" (by radiometric survey) showing sites of proposed work

0.02
Readings in MR/HR

S-350
B.M. Sample

SKETCH MAP OF THE ST. PATRICK'S PROPERTY
SAN BERNARDINO COUNTY, CALIFORNIA

Figure 2



ST. PATRICK'S GROUP OF CLAIMS
SAN BERNARDINO COUNTY, CALIFORNIA

Figure 3

6/24/55 gh

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

RECEIVED
JUN 24 1955

1605 Evans Avenue
Reno, Nevada

June 22, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3703 (Uranium)
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St. Patrick's Group, et al
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S. Ricker

Attach.

SRicker:gh
cc: R. M. Smith
File

RECEIVED
JUN 24 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-3703 - (Uranium)
Earl H. Gilliam, Jr., et al
St. Patrick's Group, et al
San Bernardino County, California

B. H. Sheahan
Mining Engineer
U. S. Bureau of Mines

E. H. Pampeyan
Geologist
U. S. Geological Survey

June 22, 1955

INTRODUCTION

Application for assistance to explore uranium claims by diamond drilling was made by Mr. Earl H. Gilliam, Jr. and partners on February 12, 1955. Proposed program called for a total expenditure of $44,452.00.

At the request of the DMEA Operating Committee, a joint field examination of the property was made on May 12 and 13, 1955 by B. H. Sheahan of the Bureau of Mines and E. H. Pampeyan of the Geological Survey.

Mr. Ernest E. Thurlow, Chief of AEC, Salt Lake Exploration Branch, Division of Raw Materials, furnished a preliminary reconnaissance report (File SC-SL16) dated Dec. 22, 1953 and a supplement to the preliminary reconnaissance report (File SC-SL-16) dated May 10, 1955.

CONCLUSIONS AND RECOMMENDATIONS

Radioactive material probably owing to thorium occurs sporadically in schists and gneisses. Sampling the most attractive spots indicates U_3O_8 content ranging from trace to 0.04 percent.

The area may warrant further preliminary prospecting, but at present there is insufficient evidence of the possibility of discovering economic uranium deposits to justify participation by the Government in exploration. It is recommended that the application for assistance be denied.

LOCATION, ACCESSIBILITY AND LOCAL RESOURCES

Labor and supplies are unavailable in the immediate vicinity. The nearest supply point is Mentone, California which is twelve miles southwest. Water, native timber and electric power are available at Forest Home, Calif.

The property is 31 miles by paved highway east of Rialto on the steep north slope of Mill Creek Canyon in the San Bernardino mountains, 0.5 mile northeast of Forest Home, San Bernardino County, California on National forest land. The claims are located in sec. 7, T. 1 S., R. 1 E., S.B.B.&M. (proj.) at an elevation of 6,000 to 7,000 feet.

HISTORY

The applicants stated that radioactive material was found near Forest Home in 1952. The claims were located in April and July 1953.

A preliminary reconnaissance report and supplement was made by the Atomic Energy Commission in December 1953 and May 1955. Subsequent work by the owners failed to find ore of economic grade.

PROPERTY AND OWNERSHIP

The property includes eleven lode mining claims indicated on figure 3. The locators include E. H. Gilliam, R. D. Clayton, P. D. Haugh and Sam David Floyd.

Names listed as applicants include:

Earl H. Gilliam, Jr.	Raymond Thomas
Patrick D. Haugh	Thomas Haugh
Ralph Claxton	Joseph Bennett
Lawrence Goddard	Vincent Haugh

Samuel D. Floyd

The applicants lack mining experience and have no definite exploration plan, target or objective. Their main occupations include various skills in trades and hobbies which are of indirect relationship to prospecting.

The financial responsibility of the applicants was not definitely determined, but they claim they are able to provide their share of the necessary capital if a contract was approved.

DEVELOPMENT

The only work done on the property includes eleven location pits less than 10 feet deep; approximately one mile of very steep access road construction; and one open cut trench (see figs. 2 and 3).

Equipment owned by the applicant included the following:

Item	Condition
1 Truck, 1/4-ton, jeep	fair
1 Scintillator	fair
1 Geiger counter	fair
Small hand tools	good

GEOLOGY

Precambrian metamorphic rocks consisting of schists and gneisses, cut by pegmatitic dikes and faults, underlie the applicant's eleven claims on the north flank of Mill Creek Canyon. Jurassic (?)

granitic rocks intrude the ancient rocks and are exposed along the south side of the canyon and also on the north side about one mile west of Forest Home (fig. 2). Mill Creek wash is along the Mill Creek branch of the San Andreas fault which is responsible for much of the shearing in the adjacent bedrock. Traces of abnormal radioactivity, probably owing to thorium, can be detected locally in the metamorphic rocks.

ORE DEPOSITS

Abnormal radiation was detected in sheared metamorphic rocks and in orthoclase-rich pegmatitic dikes which cut the bedrock, but no radioactive mineral was seen on the property. Readings taken with a Precision Model III Scintillator ranged from a low of 0.02 MR/HR in Mill Creek wash to a maximum of 0.35 MR/HR in the small open cut at D (fig. 2); an average background reading of 0.08 MR/HR was determined for the bedrock. The anomalous readings came from thin layers of reddish-orange colored clay on fracture surfaces in chlorite schist and orthoclase-rich dike rock. The highest readings were obtained from fresh exposures; the same outcrops and samples were much less radioactive after exposure to the atmosphere for more than one day. Dr. D. F. Hewett of the U. S. Geological Survey reports that uranothorite occurs with magnetite on a property one-half mile east of these claims but that no uranothorite or other radioactive mineral has been found on the St. Patrick's claims. Location of "veins"

shown on figure 2 were determined by radiometric surveys made by the applicant. At all but two localities no structural or lithological controls are exposed.

At D (fig. 2), in an open cut 40 feet long, 15 feet wide and 8 feet deep, a pegmatite dike cuts the bedrock and reddish-orange colored clayey coatings give readings of 0.15 to 0.35 MR/HR. This dike was not exposed beyond the limits of the cut. A sample (S-350) taken from this cut showed only a trace of equivalent U_3O_8.

At F, and to the south for several hundred feet, an exposure of sheared chlorite schist contained more of the reddish-orange clay which gave readings up to 0.30 MR/HR. A sample (S-351) cut from this zone contained 0.01 percent eU_3O_8.

At locality G a grab sample of float contained the highest value of equivalent uranium, 0.04 percent eU_3O_8.

No production is reported from this property.

Samples taken from the property were analyzed by the U. S. Bureau of Mines, Reno, Nev. The results follow:

Sample No.	Width, feet	Radiometric determination Equivalent U_3O_8	Remarks
S-349	0.5	Trace	See figure 2
S-350	6.0	Trace	See figure 2
S-351	0.5	0.01	See figure 2
S-352	0.5	0.04	See figure 2 (Select specimen)

The analyses of previous samples taken by examiners from the Atomic Energy Commission are not of economic grade.

ORE RESERVES

There are no measured or indicated reserves. Inferred reserves of a few hundred tons of rock containing a trace to 0.01 percent eU_3O_8 exist along the fault at F and an additional few hundred tons of inferred reserves of very low grade rock are thought to exist elsewhere on the property along the "veins" (fig. 2).

PROPOSED EXPLORATION

The applicant estimated that the total cost of his proposed program would be $44,452.00. The work included around 2,600 feet of diamond drilling at $6.00 per foot and other sundry items, such as access roads and various accessories.

There is however neither structure nor mineralized exposures on the property at this time that warrants a drilling program or participation by the DMEA in the cost of exploration.

Docket No. DMEA-3703 (Uranium)

Forest Home, San Bernardino County, California

FIG. I LOCATION MAP

Figure 2

700

Surname copy

F. L. Knouse
Ellis
Kilsgaard
Hedges
Selfridge
Robinson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

APR 25 1955

Mr. Earl H. Gilliam, Jr.
St. Patrick's Mining Group
925 N. Acacia
Rialto, California

Re: Docket No. DMEA-3703 (Uranium)
St. Patrick's Group, et al.
San Bernardino, County, California

Dear Mr. Gilliam:

The application for assistance in exploring the subject property in San Bernardino County, California, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region II at the following address:

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
Rare and Precious Metals
Experiment Station
1605 Evans Avenue
Reno, Nevada

The Regional Office will contact you in regard to your project if additional information is required.

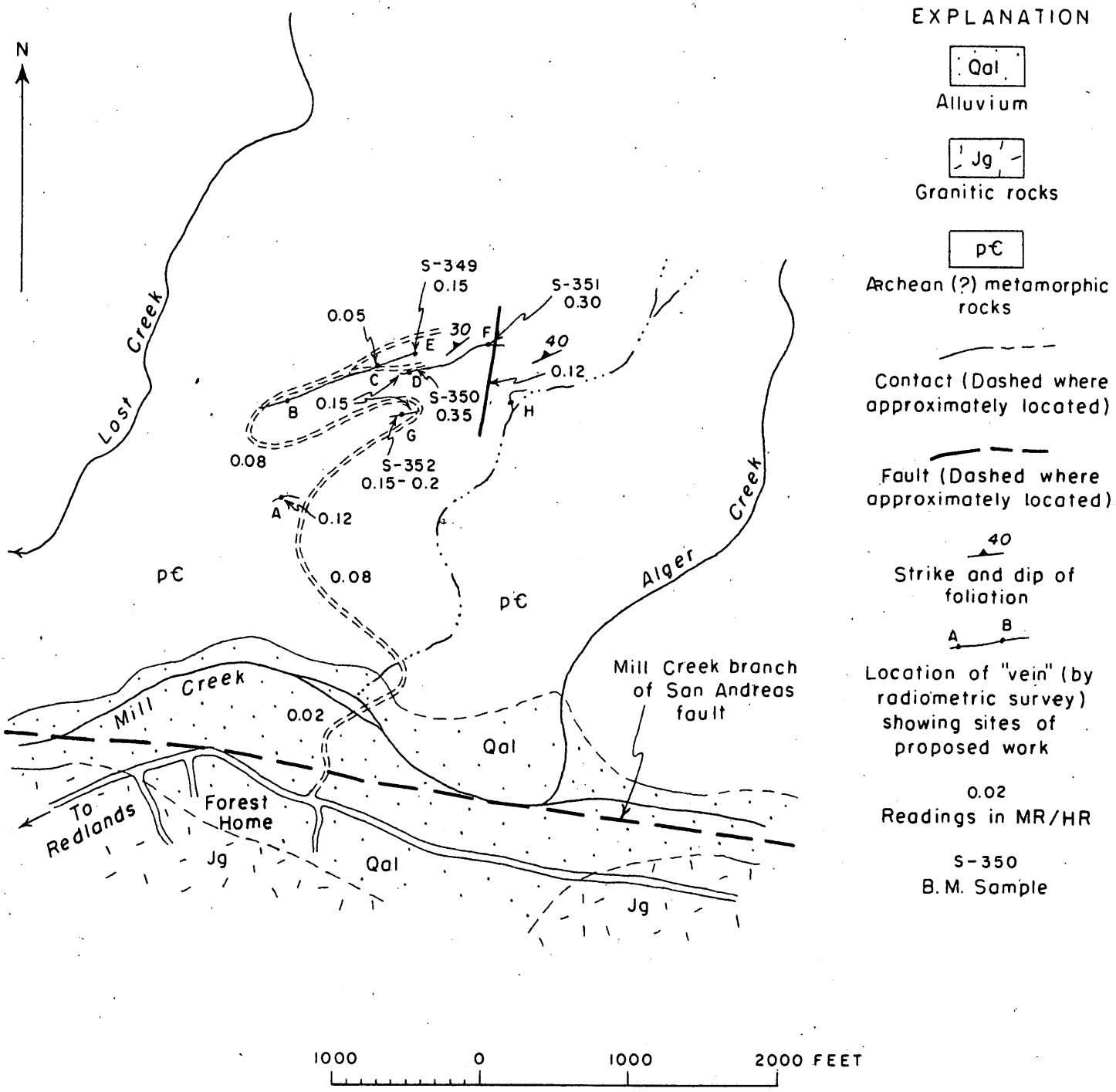
Sincerely yours,

C. O. Mittendorf

Administrator

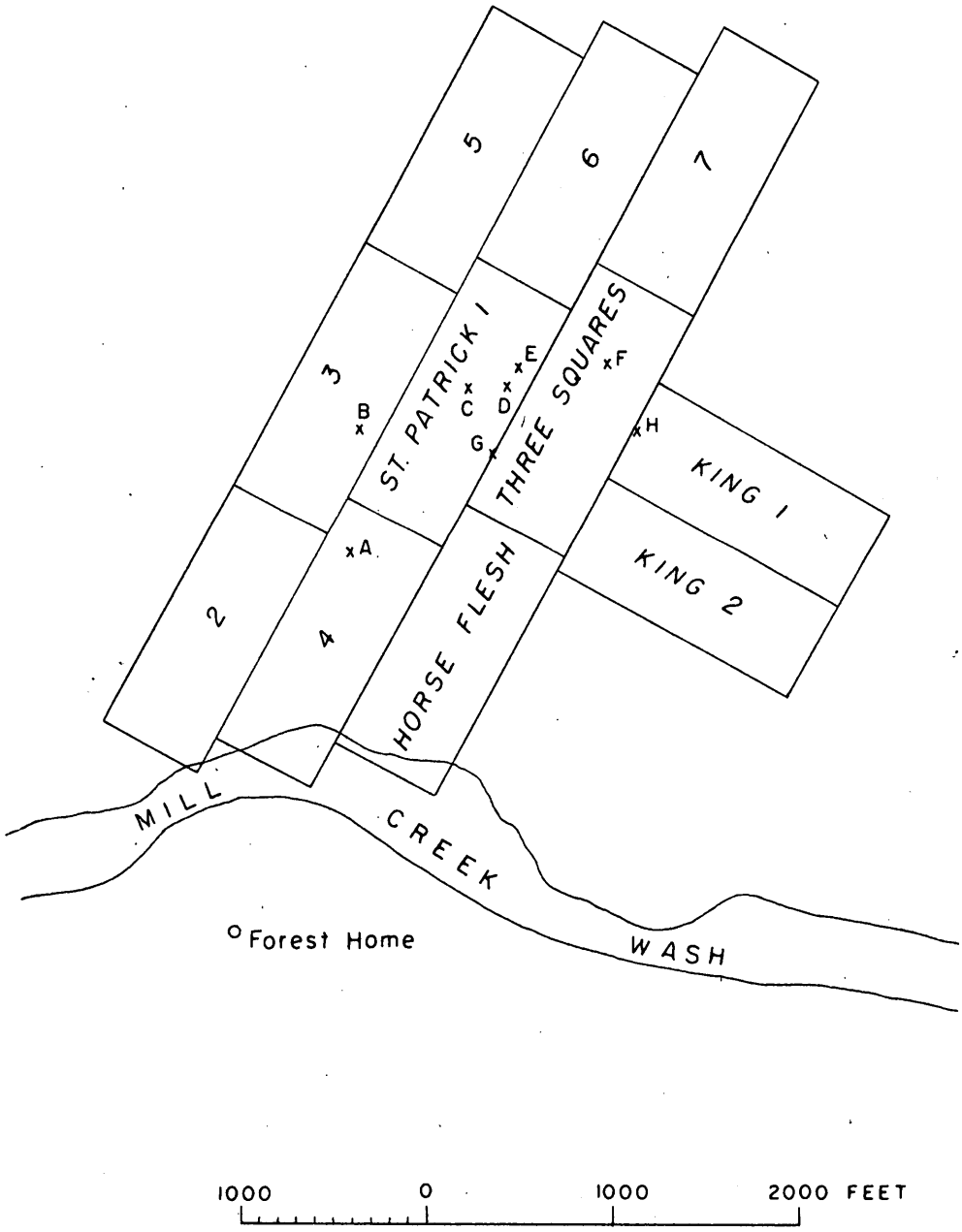
FLKnouse/gla
4-21-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Knouse
DMEA Field Team, Region II (2)

R.C.H.



SKETCH MAP OF THE ST. PATRICK'S PROPERTY
SAN BERNARDINO COUNTY, CALIFORNIA

Figure 2



ST. PATRICK'S GROUP OF CLAIMS
SAN BERNARDINO COUNTY, CALIFORNIA

Figure 3

Surname copy

F. L. Knouse.
Ellis
Selfridge
Hedges

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

APR 25 1955

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
Rare and Precious Metals
Experiment Station
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-3703 (Uranium)
St. Patrick's Mining Group
St. Patrick's Group, et al.
San Bernardino County, California

Dear Mr. Ricker:

The captioned application is referred to your office for either a field examination and report, or a report based on AEC or other information available to your office. One copy of the application was retained by your office.

Enclosed are copies of memoranda from Messrs. R. D. Trace, dated March 8, John E. Crawford, dated March 17, and T. H. Kiilsgaard, dated April 20, 1955, members of the Uranium Commodity Committee. There are also enclosed a copy of supplementary information submitted by the Applicant to this office under date of April 4, 1955, and one copy of a memorandum from Dudley L. Davis to Harry E. Nelson of the AEC, dated March 23, 1955.

If your office recommends an exploration program approved by the Applicant, please furnish the necessary information to draft a contract. In this connection, nine copies of a map showing the proposed work in relation to the mining claim boundaries will be required.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (2/B)

Enclosures

APPROVED:

J. H. Hedges (2/B)
Member, Bureau of Mines

Thor H. Kiilsgaard (2/B)
Member, Geological Survey

FLKnouse/gla
4-21-55

cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J.O.Hosted, Rm. 3210, GSA
Code 700 Mr. Knouse

RCS

4/20/55 gla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Defense Minerals Administration
RECEIVED
APR 20 1955

April 20, 1955

Memorandum

To: E. W. Ellis, Chief, Rare & Misc. Metals Division, Defense Minerals Exploration Administration

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of supplementary information submitted by applicant, DMEA Docket 3703, San Bernardino Co., California

I have reviewed the photograph and attached letter recently submitted by the applicant for the purpose of supplementing his earlier application. Neither the photo nor the letter contain any information that can be used in evaluating the application. From information on hand it would appear that the applicant's property contains sparse amounts of uranium ore, although from the applicant's description it is doubtful if an exploration program is warranted.

I doubt if any definite action can be taken on this application on the basis of information now on hand. I therefore recommend that it be referred to the field for further study, at the same time informing them that AEC has examined the property. The Field Team may be able to obtain enough information from Mr. Thurlou, of the AEC Salt Lake office, to make a recommendation on the property without making a field examination.

T. H. Kiilsgaard

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 20 1955

April 20, 1955

Memorandum

To: E. W. Ellis, Chief, Rare & Misc. Metals Division, Defense Minerals Exploration Administration

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of supplementary information submitted by applicant, DMEA Docket 3703, San Bernardino Co., California

I have reviewed the photograph and attached letter recently submitted by the applicant for the purpose of supplementing his earlier application. Neither the photo nor the letter contain any information that can be used in evaluating the application. From information on hand it would appear that the applicant's property contains sparse amounts of uranium ore, although from the applicant's description it is doubtful if an exploration program is warranted.

I doubt if any definite action can be taken on this application on the basis of information now on hand. I therefore recommend that it be referred to the field for further study, at the same time informing them that AEC has examined the property. The Field Team may be able to obtain enough information from Mr. Thurlow, of the AEC Salt Lake office, to make a recommendation on the property without making a field examination.

T. H. Kiilsgaard

Copy to: DMEA (3)

3703

4 April 1955
925 N. Acacia
Rialto, Calif.

DEPARTMENT
Defense Di...
APR - 6 1955

Ernest Wm. Ellis, Chief
Rare & Miscellaneous Metals Division
Defense Minerals Exploration Administration
Washington 25, D. C.

Dear Sir:

Reference Docket No. DMEA-3703 (Uranium). Inclosed herewith please find four copies of map requested in your letter of 25 March 1955.

Following is the description of the exposures shown on the map. It should be noted that the depth of the mineralization is not known at any of the exposures. All radioactive minerals present in the exposures are similar to the sample submitted with the application. The descriptions are given in the order appearing on the map:

A. This is a rock outcrop measuring fifteen (15) feet wide and thirty (30) feet long. Because of the sharp rise in the slope on the rim directly above this exposure, it is believed that a large intrusive mass is laying adjacent to this exposure. The plan is to spend twenty five hundred dollars ($2500.00) core drilling on the rim directly above this exposure. Chemical assay of surface samples from this outcrop are .09 U308.

B. & C. These outcrops are listed to-gether. They were incorporated as part of the map to show the continuity of the results of the radiometric survey. The chemical analysis of surface samples from these outcrops are .045 U308. There is no plan to core drill in these areas. These outcrops measure fifteen (15) by ten (10) feet.

D. This is the site of the largest adit on the claims. What appears to be a four(4) foot by three (3) foot vein of decomposed granite has been severed. Chemical analysis of the radioactivity present is .126 U3o8. The vein appears to be a wall rock to a hard intrusive mass that is radioactive, but, because of the extreme hardness of the rock, samples have never been taken. Four thousand dollars ($4000.) worth of core drilling is planned in this area to explore the intrusive and wall rock.

E. This exposure is buried under a thin layer of overburden. The actual exposure measures fifteen(15) feet by eight (8) feet. Chemical analysis of radioactive mineral present is .09 U308. Two thousand dollars (2000.00) will be spent for core drilling in this area.

F. This exposure measures one hundred ten (110) feet by twenty (20) feet. Chemical analysis of U308 present is .09. Approximately three thousand dollars ($3000.00) is earmarked for core drilling in this area.

G. There is actually no outcrop exposed in this area. However the surface indications on the scintallator shows extensive radioactivity close to the surface. Approximately two thousand dollars ($2000.00) will be spent core drilling this area.

H. This radioactive mineral is in an exposure measuring approximately seventy five (75) feet by eight hundred (800) feet. The mineralized zone measures fifteen(15) feet by ten (10) feet. Chemical assays from this area show .12 U308. Twenty five hundred dollars ($2500.00) will be spent drilling in this area.

In addition to the above funds estimated for core drilling your attention is invited to the application wherein there are additional estimated items of expense and a contingency fund for further drilling, if recommended by a reputable geologist.

Thank you for your trouble.

Yours truly,

Earl H. Gilliam Jr.

Earl H. Gilliam Jr.

March 23, 1955

Harry E. Nelson, District Supervisor
Las Vegas, Nevada

Dudley L. Davis, Assistant Chief
Salt Lake Exploration Branch

DMEA APPLICATION, ST. PATRICK GROUP, SAN BERNARDINO COUNTY, CALIFORNIA

Symbol: SLEB:DLD:af

Mr. Joe Hosted, Washington office, DRM, called regarding the subject property, and a search of our files revealed only preliminary reconnaissance report SC-SL-16 by Nelson and Conklin.

There are insufficient data in this report to determine whether a DMEA loan is justified. Will you please make a supplementary report at your earliest convenience in order that we may advise Hosted in this matter.

From the geologic map of California it appears the radioactivity may be due to thorium rather than uranium. This supposition is partly substantiated by the one assay taken when you visited the property in 1953--eU_3O_8 was 0.04% with cU_3O_8 0.021%, and unless subsequent work has disclosed much better material, a loan should not be approved.

cc: J. O. Hosted, DRM, Washington

C
O
P
Y

Surname 700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. Earl H. Gilliam, Jr., et al. MAR 25 1955
St. Patrick's Mining Group
925 North Acacia
Rialto, California

Re: Docket No. DMEA-3703 (Uranium)
St. Patrick's Group, et al.
San Bernardino County, California

Gentlemen:

Reference is made to the captioned application for Government aid to explore the subject property.

In your letter of February 12, 1955, you requested to be advised if this Agency continued to contribute 90 percent of the cost of exploring for rare earths and uranium. The percentage of Government contribution to explore for these metals or minerals was reduced to 75 per cent on March 19, 1954.

You also desire to know the manner in which the payment of exploration costs are made. If a contract is executed, following each month's work the details of the work and the cost thereof are entered on printed forms and presented to the Executive Officer in your region for payment. Information regarding this matter will be furnished later providing a project is approved. The Government will not participate in the cost of any work done prior to a contract date.

With regards to surveying the property the applicant is expected to furnish information as to claim locations and other data. In order to enable us to continue with the processing of your application, we will require the following information:

1. Furnish four copies of a map or sketch drawn to scale which shows the location of each mining claim listed in the application.

2. On the above mentioned map or sketch show the location and extent of any uranium or radioactive mineral exposures in relation to the property boundaries. Each exposure should be described as to extent (including width, length, and depth) of the mineral content (if known), including results of radiometric survey and chemical analyses of any samples.

R.S.G.

3. Also on the map, show the work you propose to do to explore this property. A detailed cost estimate to do each proposed unit of work should also be included.

Upon receipt of the above information we will be able to continue processing this application.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FLKnouse:am
3-24-55
cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210,GSA
Code 700
Mr. Knouse
DMEA Field Team, Region II(2)

MEMO

3-21-55

To: File

From: F. L. Knouse

Subject: Docket No. DMEA. 3703 - Uranium
St. Patrick's Mining Group
San Bernardino County, California

Discussed this case by telephone with Mr. Jas. Hartnell, A.E.C. Today he plans to follow up on the Preliminary Rec. Report dated 22 Dec 1953 and determine if they have copy in Washington office, and follow up further with Mr. Thayer in Salt Lake City as he has men in the area working. Will let me know of the developments.

3/17/55 gh

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

March 17, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3703, St. Patrick's Mining Group,
San Bernardino County, California

I have reviewed the application of the St. Patrick's Mining Group, DMEA Docket 3703, and have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission and Frank Lamb, Commodity Committee Member for rare-earth metals.

We recommend that the application be referred to the Field Team for examination and report, and that the Field Team be requested to discuss the application with Ernest Thurlow, Atomic Energy Commission, Salt Lake City, Utah.

John E. Crawford

John E. Crawford

Attachment

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. E. Crawford (2)

geologic map areas of

12 Feb. 1955
925 N. Acacia
Rialto, Calif.

Defense Minerals Exploration Administration
1012 Flood Bldg.
870 Market St.
San Francisco, Calif.

Gentlemen:

Inclosed please find our application for an exploration loan, with substantiating data. This application was filed in accordance with DMEA Order -1 dated 7 March 1952. Section 7c of this order states that your administration will contribute ninety (90) percent of the cost of exploration of rare earths and uranium. If this has been changed, please notify us immediately.

Your attention is invited to the total appearing in item 7b on the application. This figure represents more than ten (10) percent of the estimated cost. It is pointed out that the cash on hand will vary daily plus or minus five hundred dollars ($500.00). For that reason the three thousand dollars ($3000.00) should not be construed to be the exact figure when a contract is definitized. If it is necessary that $3000.00 be available when contract is finalized, please inform us so that arrangements can be made.

Please inform this group of the manner in which the payment of costs of exploration are to be handled.

Will it be necessary to have the property surveyed prior to entering into the contract? If so, will your administration furnish financial assistance in this area also? By whom should the property be surveyed? Will it be necessary to survey the claims individually or will it be satisfactory to survey the perimeter of the group, as they are all adjacent to each other?

A member of this group is available to visit your office to discuss any phase of the transaction, if necessary.

On the inclosed geologic map the fault paralleling Mill Creek is labeled San Andreas Fault. This information was obtained from "Economic Mineral Map of California No. 6 (copper)" prepared by O. P. Perkins in 1948. This was not forwarded because of its size.

Your co-operation in processing this application, and guidance in concluding the transation will be greatly appreciated.

Sincerely,

St. Patrick's Mining Group

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3703
Metal or Mineral Uranium
Date Received FEB 1 1955 2-25-55
Estimated Cost $44,452
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: St. Patrick's Mining Group; 925 W. Acacia, Fresno, Calif. (Carmichael-Calif.) Earl W. Gilliam Jr., 925 W. Acacia, Fresno, Calif.; Patrick D. Haugh, 3031 Flores, San Bernardino, Calif.; Ralph Clinton, Air Force Plant Rep. c/o Lockheed Acft. Co. Ltd. A.F.C. 317, San Francisco, Calif.

Lawrence Goddard, 3036 Flores, San Bernardino, Calif.; Raymond Thomas, 406 S.6th E. Yucaipa, Calif.; Thomas Haugh, 679 Arthur, Chula Vista, Calif.; Joseph Bennett, 236 E. Valencia, Rialto, Calif.; Vincent Haugh, 657 Arthur, Chula Vista, Calif.; Samuel D. Floyd, U.S.N. 432-21-43; USSSt. Paul (CA-73), 7th Div. c/o Fleet P.O. San Francisco, Calif

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See attached sheet

(*b*) State any mine name by which the property is known. See attached sheet

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise See attached sheet

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it See attached sheet

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore See attached sheet

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ONE days and be completed within 6 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☒ Money ☒ Use of equipment owned by you ☒ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated 12 Feb., 1955

St. Patrick's Mining Grp.
(Applicant)

By Earl H. Gilliam Jr.

925 N. Acacia
Rialto, Calif.

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

3. The following is the legal description of the unpatented claims. Where two book and page numbers appear, the claim has had an amended claim location notice filed showing completion of discovery work.

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" " 2	" " " " "	334	75	" " "
" " 3	" " " " "	333/335	510/123	" " "
" " 4	" " " " "	333/335	511/123	" " "
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" " 6	" " " " "	333/335	513/123	" " "
" " 7	" " " " "	333/335	514/123	" " "
3 Squares	" " " " "	334/336	76/83	" " "
King " 1	" " " " "	337/339	130/114	" " "
" 2	" " " " "	337/339	131/114	" " "
Horse Plough	" " " " "	338	615	" " "

4. (a) The land consists of eleven lode claims. All claims have discovery work as prescribed by law accomplished on them. The discovery work consists of 9 adits and 2 discovery shafts. One of the adits measures approximately 20'X 20' X15'. The remainder of the shafts and adits are a minimum of 4' X 6'X10'. The St. Patrick's Mining Group has sole interest in these workings. At present there is a foot trail to all the workings. A survey for an access road to the largest adit has been completed. The right of way has been obtained from the National Forest Service.

(b) There is no past or current ore production taking place. Ore reserves are unknown. However, surface indications of radioactive mineralization are extensive.

(c) The country is mountainous. A branch of the San Andreas fault parallels Mill Creek approximately ½ mile from the project. The country is faulted generally (refer to aerial photo). The rock is generally granitic and schistose. The minerals present are chiefly ores of aluminum and iron. However, ores of uranium and thorium appear in veins. Occasionally a pegmatite dike may be found to have tungsten ore present in low percentages.

(d) The project is accessible via a foot trail. The topography will lend itself to the construction of a road (see inclosed photo). The closest rail point is Montono, California which is approximately 12 miles from the claims via an all weather highway. Supplies can be obtained from Forest Home, Calif. which is 3/8 of a mile from the project. There is housing available in Forest Home also.

(e) The claims are 88 miles from San Bernardino and 75 miles from Los Angeles, Calif. Adequate manpower, materials, supplies and equipment can be had from these nearby population centers. There are 2 fresh water springs on

Earl H. Gilliam Jr.
Earl H. Gilliam Jr.

the claims that are furnishing water in abundant amounts; Mill Creek is 3/5 of one mile from the project. The Edison Co. has an electrical generating plant within one mile from the project.

5. (a) Uranium and other rare earths are the minerals to be explored.
(b) The fact that the vein carrying the radioactivity is always relatively damp has given rise to the general belief that the U308 is percolating from a primary ore of uranium. Inclosed aerial photograph has six (6) areas indicated by cross hatching that have surface indication of radioactivity. The plan is to core drill in these areas under the supervision of a reputable geologist. All six of these areas are on outcrops of granite.
(c) The work would begin immediately after definitizing an exploration contract and would be completed within six months thereafter.
(d) The applicant has spent two years of spare time exploring the property with geiger counter and scintilator, researching the geology of the country, studying the laws governing prospecting, exploration and mining. The actual supervision of the core drilling will be performed by Mr. Charles Peron, 406 N. Segovia Ave., San Gabriel, Calif. He was recommended to this group by Dr. Hewitt of California Institute of Technology at Pasadena.

6. The following is the list of estimated costs.

(a)	Independent Contracts		
	1. Access Roads	$ 2,000.00	
	2. Core Drilling	16,000.00	
	3. Survey	1,000.00	
			$ 19,000.00
(b)	Labor Supervision and Consultants		
	1. Geologist	$ 3,450.00	
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(cont'd page 3)

Earl H. Gilliam Jr.
Earl H. Gilliam Jr.

(e) Rehabilitation and Repairs -- None

(f) Improvements		
1. 10 X 10 Guard Quarters	$ 500.00	
2. 1 structure 1,000 sq. ft. (Garage, Office & Tool shed)	400.00	
3. Development of Spring	200.00	
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5. Field telephone & wire	75.00	$ 1,325.00
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		$ 400.00
(h) Contingencies		
1. Additional core drilling contingent on geologists findings	$14,000.00	
		$14,000.00
Grand Total		$44,452.00

7. (a) Yes

(b) 1. Cash on hand	$ 3,000.00	
2. Geiger counter	150.00	
3. Scintillator	521.00	
4. Detonator	35.00	
5. Assorted hand tools	60.00	
6. Pick up truck	300.00	
7. Labor (1,056 man hrs. @ $1.60 pr. Hr.	1,689.00	
		$ 5,755.00

(Note: Labor listed under item 7 (b) 7 will be accomplished by four persons who are physical able to do manual labor and have such skills as carpenter, electrician and mechanic.)

Earl H. Gilliam Jr.
Earl H. Gilliam Jr.

3/9/55 gla

IN REPLY REFER TO:

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 8 - 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

March 8, 1955

Re: DMEA-3703
St. Patrick's Mining Group
St. Patrick et al. claims
San Bernardino Co., California
$44,452 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

The applicants have found pitchblende(?) in undifferentiated Archean metamorphic rocks. One sample assayed 0.126 U_3O_8. That summarizes what we know. I don't find any aerial photos of the area, as mentioned in the application.

The Commission has examined the property. I suggest that you ask Mr. Thurlow whether or not the property merits a field examination.

Bob Trace
R. D. Trace

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DEPARTMENT OF THE INTERIOR
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R. D. Trace

RDTrace:hlm
G-3/8/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

March 2, 1955
Subject: DMEA 3703
Re: Exploration Assistance
St. Patrick's, 3 Squares,
King, & Horse Flesh Claims

St. Patrick's Mining Group
925 N. Acacia
Rialto, California

Gentlemen:

The receipt of your application dated February 12, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3703 and referred to the Rare and Miscellaneous Metals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

March 2, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA - 3703 St. Patrick's Mining Group

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

420 Custom House
555 Battery Street
San Francisco 11, Calif.

February 21, 1955

Memorandum

To: Defense Minerals Exploration Administration
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Application for DMEA Assistance - Uranium
St. Patrick's Mining Group
Earl H. Gilliam, Jr., et al.
San Bernardino County, California

Attached are three copies of an application for exploration aid received from Earl H. Gilliam, Jr., representing St. Patrick's Mining Group. We are also enclosing the following material which the applicant wishes returned to him when it has served its purpose:

Copy of letter dated December 9, 1953, (with attachments), from Harry E. Nelson to Mr. Patrick D. Haugh

Report of Qualitative Spectrographic Examination, dated July 26, 1954

Chemical Laboratory Report, dated December 3, 1953

Map

Report on Geology of San Bernardino Mountains, by Francis Edward Vaughn

Not much factual data are presented, although I note in the correspondence between Patrick D. Haugh and Harry E. Nelson that the property warrants further attention.

One copy of the application is being retained in our files.

S. Ricker, Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: Roscoe Smith, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

420 Custom House
555 Battery Street
San Francisco 11, Calif.

February 21, 1955

Memorandum

To: Defense Minerals Exploration Administration
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

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St. Patrick's Mining Group
Earl H. Gilliam, Jr., et al.
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S. RICKER

S. Ricker, Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: Roscoe Smith, USGS

12 Feb. 1956
925 N. Acacia
Rialto, Calif.

Defense Minerals Exploration Administration
1012 Flood Bldg.
870 Market St.
San Francisco, Calif.

Gentlemen:

Inclosed please find our application for an exploration loan, with substantiating data. This application was filed in accordance with DMA Order -1 dated 7 March 1952. Section 7c of this order states that your administration will contribute ninety (90) percent of the cost of exploration of rare earths and uranium. If this has been changed, please notify us immediately.

Your attention is invited to the total appearing in item 7b on the application. This figure represents more than ten (10) percent of the estimated cost. It is pointed out that the cash on hand will vary daily plus or minus five hundred dollars ($500.00). For that reason the three thousand dollars ($3000.00) should not be construed to be the exact figure when a contract is definitized. If it is necessary that $3000.00 be available when contract is finalized, please inform us so that arrangements can be made.

Please inform this group of the manner in which the payment of costs of exploration are to be handled.

Will it be necessary to have the property surveyed prior to entering into the contract? If so, will your administration furnish financial assistance in this area also? By whom should the property be surveyed? Will it be necessary to survey the claims individually or will it be satisfactory to survey the perimeter of the group, as they are all adjacent to each other?

A member of this group is available to visit your office to discuss any phase of the transaction, if necessary.

On the inclosed geologic map the fault paralleling Mill Creek is labeled San Andreas Fault. This information was obtained from "Economic Mineral Map of California No. 6 (copper)" prepared by G. P. Perkins in 1948. This was not forwarded because of its size.

Your co-operation in processing this application, and guidance in concluding the transaction will be greatly appreciated.

Sincerely,

St. Patrick's Mining Group

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

FEB 2 1955

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3703
Metal or Mineral Uranium
Date Received FEB 16 1955 2-25-55
Estimated Cost $44,452
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: St. Patrick's Mining Group; 925 N. Acacia, Rialto, Calif. (Partnership-Calif.) Earl H. Gilliam Jr., 925 N. Acacia, Rialto, Calif.; Patrick D. Haugh, 3031 Flores, San Bernardino, Calif.; Ralph Claxton, Air Force Plant Rep. c/o Kawasaki Acft. Co. Ltd. A.P.O. 317, San Francisco, Calif. Lawrence Goddard, 3036 Flores, San Bernardino, Calif.; Raymond Thomas, 406 S. 6th S Yucaipa, Calif.; Thomas Haugh, 679 Arthur, Chula Vista, Calif.; Joseph Bennett, 236 E. Valencia, Rialto, Calif.; Vincent Haugh, 657 Arthur, Chula Vista, Calif.; Samuel D. Floyd, U.S.N. 432-21-43; USSSt. Paul (CA-73), 7th Div. c/o Fleet P.O. San Francisco, Calif

Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See attached sheet

(*b*) State any mine name by which the property is known. See attached sheet

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise See attached sheet

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it See attached sheet

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will to explore See attached Sheet

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ONE days and be completed within SIX months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

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Explain in detail on acompanying paper.

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(cont'd page 3)

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Earl H. Gilliam Jr.
Earl H. Gilliam Jr.

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 4-8-55

REFERRED TO:

DMEA-3703
St. Patrick's
Mining Group

1. Mr. J. E. Crawford, Rm. 3641
2. Mr. Kinney
3. Mr. Ewart
4. No comments

FOR:

	Action	X	Recommendation
	Approval		Record
X	Comment		of
	Conference		Referring
	Consideration		to
	Filing		Reply for signa-
	Instructions		ture of
	Investigation		Rewriting
	Initials		Signature
	Mailing		Suggestions
	Previous correspondence		Your information

REMARKS: Referring to your comments of March 17, kindly review the attached information recd. from the Applicant, and prepare supplemental comments.

Check (X) before the items needing attention.

return to

Ernest Wm. Ellis
gla *Initials of sender.*

GPO 16—63815-1

4 April 1955
925 N. Acacia
Rialto, Calif.

Ernest Wm. Ellis, Chief
Rare & Miscellaneous Metals Division
Defense Minerals Exploration Administration
Washington 25, D. C.

U.S. DEPT. OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR - 6 1955

Dear Sir:

Reference Docket No. DMEA-3703 (Uranium). Inclosed herewith please find four copies of map requested in your letter of 25 March 1955.

Following is the description of the exposures shown on the map. It should be noted that the depth of the mineralization is not known at any of the exposures. All radioactive minerals present in the exposures are similar to the sample submitted with the application. The descriptions are given in the order appearing on the map;

A. This is a rock outcrop measuring fifteen (15) feet wide and thirty (30) feet long. Because of the sharp rise in the slope on the rim directly above this exposure, it is believed that a large intrusive mass is laying adjacent to this exposure. The plan is to spend twenty five hundred dollars ($2500.00) core drilling on the rim directly above this exposure. Chemical assay of surface samples from this outcrop are .09 U308.

B. & C. These outcrops are listed to-gether. They were incorporated as part of the map to show the continuity of the results of the radiometric survey. The chemical analysis of surface samples from these outcrops are .045 U308. There is no plan to core drill in these areas. These outcrops measure fifteen (15) by ten (10) feet.

D. This is the site of the largest adit on the claims. What appears to be a four(4) foot by three (3) foot vein of decomposed granite has been severed. Chemical analysis of the radioactivity present is .126 U308. The vein appears to be a wall rock to a hard intrusive mass that is radioactive, but, because of the extreme hardness of the rock, samples have never been taken. Four thousand dollars ($4000.) worth of core drilling is planned in this area to explore the intrusive and wall rock.

E. This exposure is buried under a thin layer of overburden. The actual exposure measures fifteen(15) feet by eight (8) feet. Chemical analysis of radioactive mineral present is .09 U308. Two thousand dollars (2000.00) will be spent for core drilling in this area.

F. This exposure measures one hundred ten (110) feet by twenty (20) feet. Chemical analysis of U308 present i[illegible] Approximately three thousand dollars ($3000.00) is [illegible] for core drilling in this area.

G. There is actually no outcrop exposed in this area. However the surface indications on the scintallator shows extensive radioactivity close to the surface. Approximately two thousand dollars ($2000.00) will be spent core drilling this area.

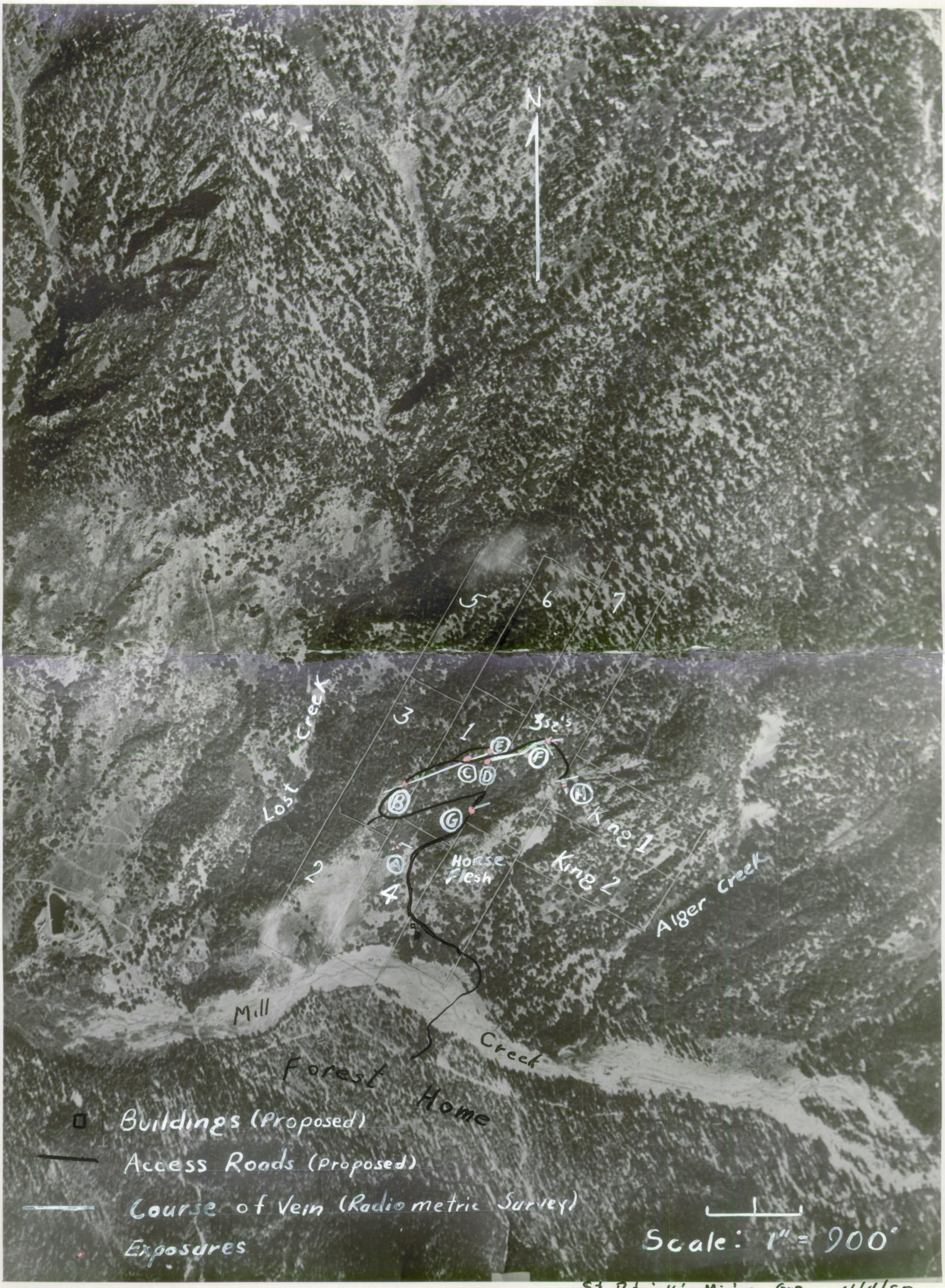
H. This radioactive mineral is in an exposure measuring approximately seventy five (75) feet by eight hundred (800) feet. The mineralized zone measures fifteen(15) feet by ten (10) feet. Chemical assays from this area show .12 U3O8. Twenty five hundred dollars ($2500.00) will be spent drilling in this area.

In addition to the above funds estimated for core drilling your attention is invited to the application wherein there are additional estimated items of expense and a contingency fund for further drilling, if recommended by a reputable geologist.

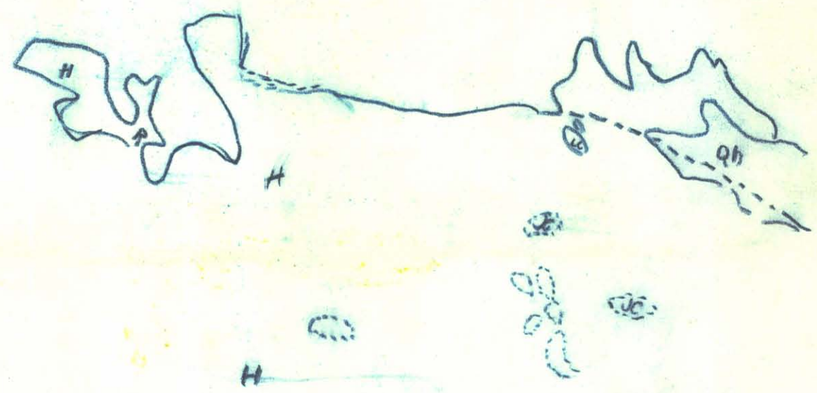
Thank you for your trouble.

Yours truly,

Earl H. Gilliam Jr.



St. Patrick's Mining Grp. 4/4/55



Symbols

Faults

Exposed

Probable

Buried

Jc — Jurassic (cactus granite)

U — undifferentiated Schists

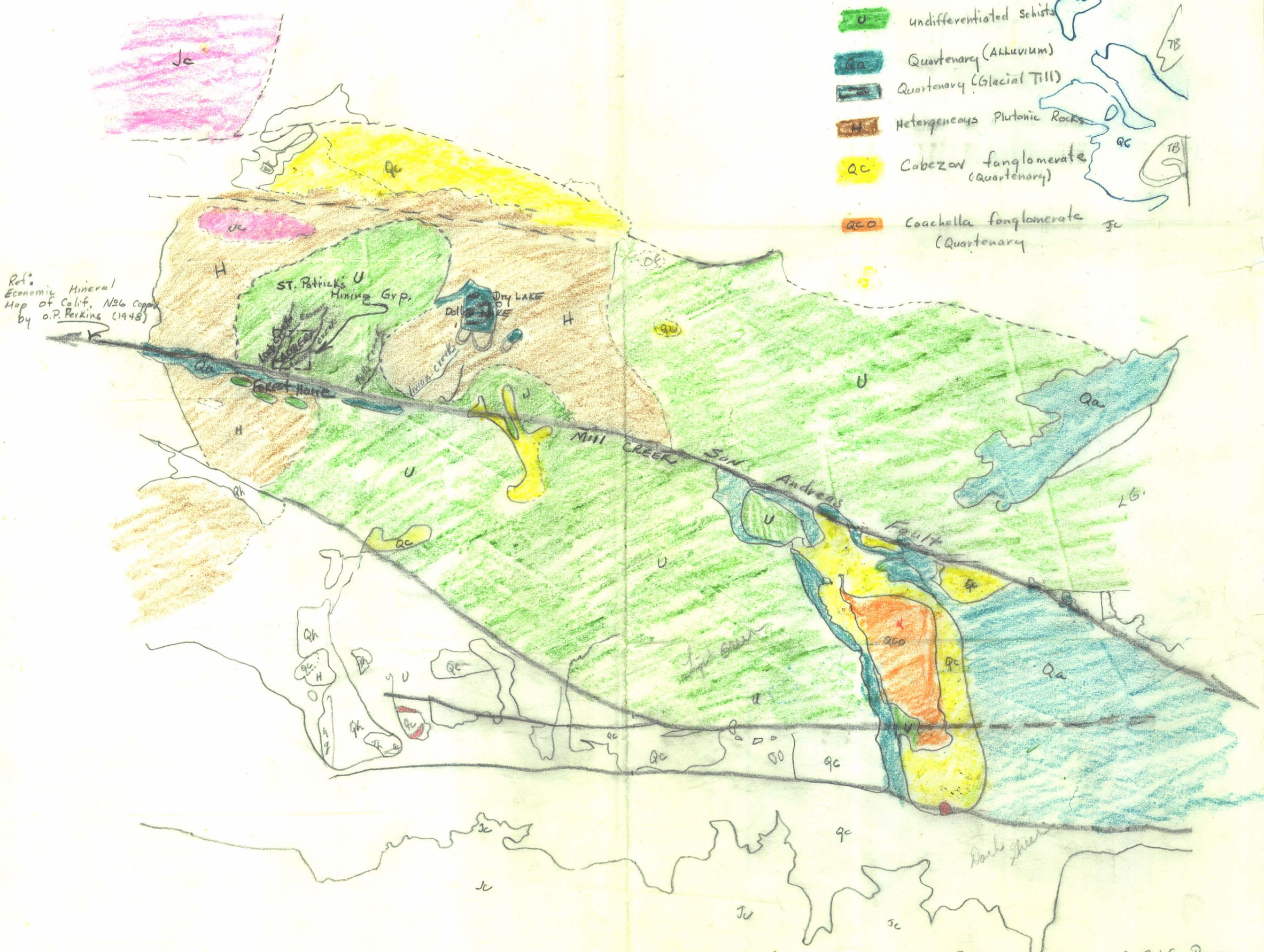
Qa — Quartenary (Alluvium)

Quartenary (Glacial Till)

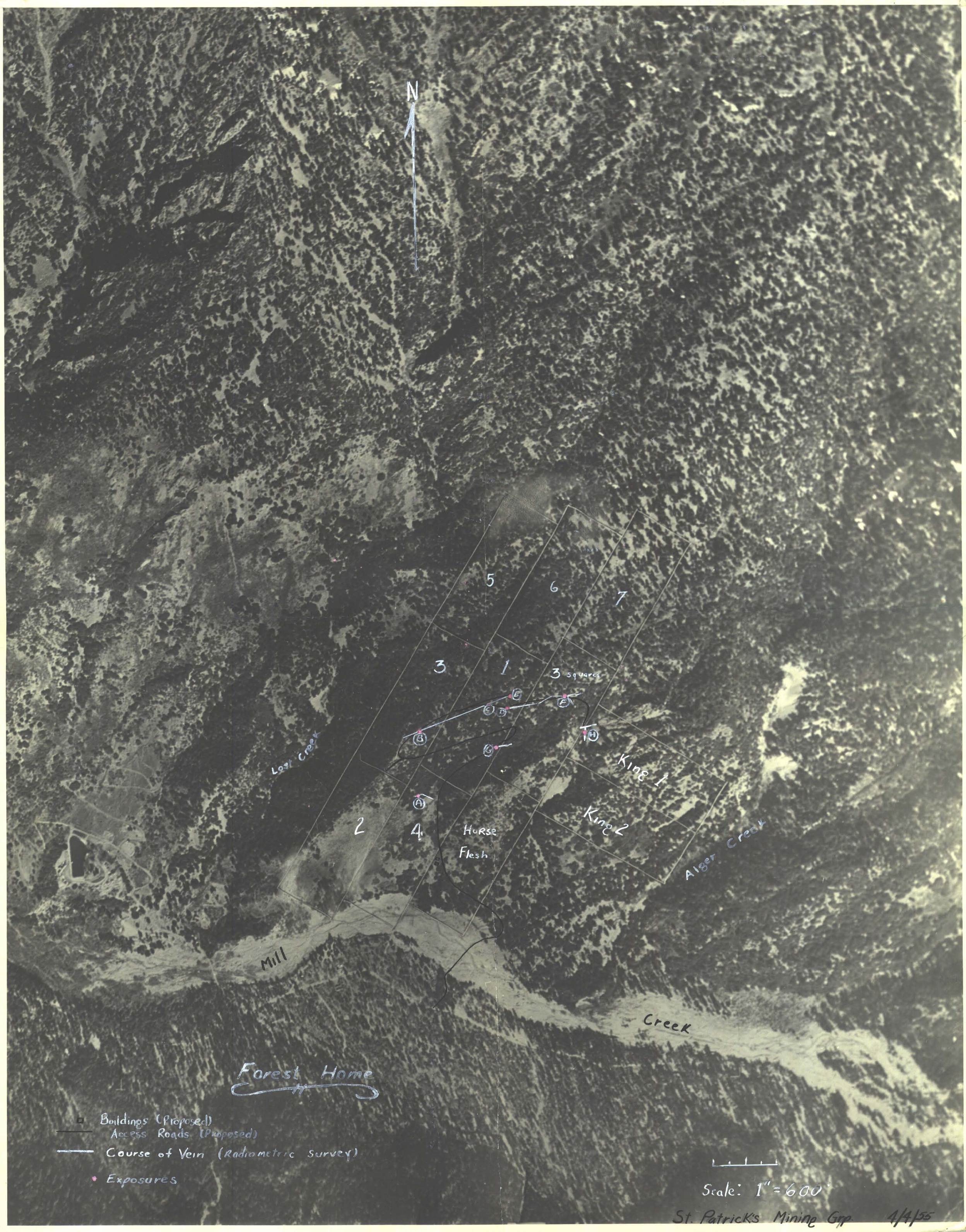
H — Heterogeneous Plutonic Rocks

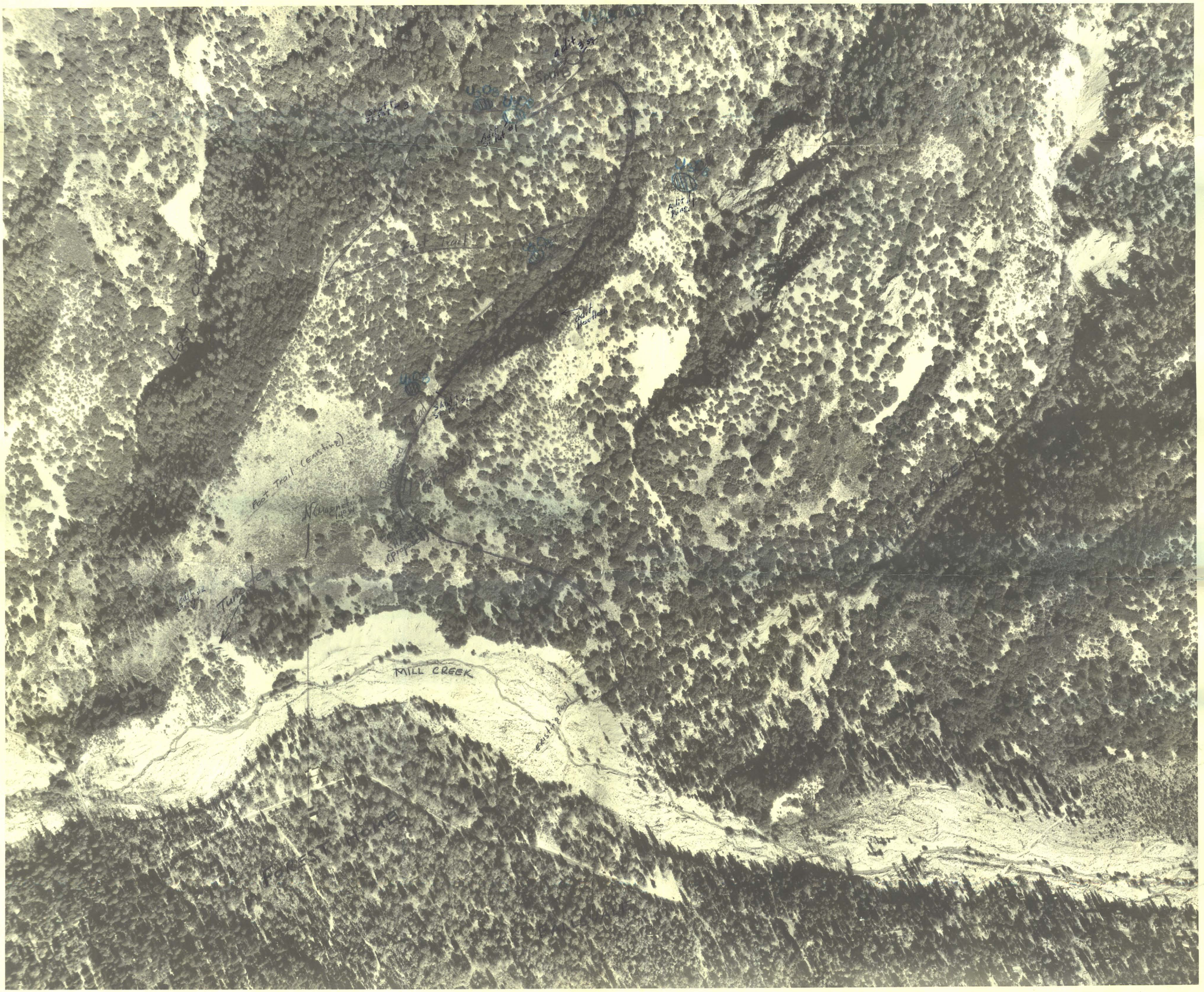
Qc — Cabezon fanglomerate (Quartenary)

Qco — Coachella fanglomerate (Quartenary)



Reference: Univ. of Calif. Press —
Geology of San Bernardino Mountains
North of San Gorgonio Pass
By Francis E. Vaughan


N
5
6
7
3
1
3 squares
E
C
D
F
B
G
H
A
Lost Creek
King 1
King 2
2
4
Horse
Flesh
Alger Creek
Mill
Creek
Forest Home
Buildings (Proposed)
Access Roads (Proposed)
Course of Vein (Radiometric Survey)
Exposures
Scale: 1" = 600'
St. Patrick's Mining Grp 4/4/55


Shaft
Adit
Foot Trail
Adit
Adit
Shaft
Foot Trail (existing)
N (magnetic)
Shaft
Turbine
MILL CREEK
Existing Road
FOREST HIKE